

## HAIL.

Hail has been reported from the several states and territories as follows:

*Arizona*.—Prescott, 9th.  
*Illinois*.—Mattoon, 24th; Larchland, 25th.  
*Indiana*.—Wabash, 8th; Indianapolis, 9th.  
*Iowa*.—Indianola, 8th, 25th.  
*Kansas*.—Clay Centre, 4th, 5th; Emporia and Leavenworth, 5th.  
*Maine*.—Bangor 1st; Gardiner, 1st, 12th.  
*Massachusetts*.—Somerset and Westborough, 2d.  
*Michigan*.—Northport, 4th and 11th; Escanaba, 10th, 11th; Traverse City, 26th.  
*Missouri*.—Saint Louis, 21st.  
*Nebraska*.—Johnson, 5th.  
*New Jersey*.—Cape May, 2d.  
*New York*.—Fort Niagara, 1st; Menand station, (near Albany) 3d; Ardenia, 9th; Palermo, 9th, 11th.  
*Ohio*.—Sandusky, 9th.  
*Oregon*.—Portland, 18th; Astoria, 24th, 25th; Fort Stevens, 24th.  
*Rhode Island*.—Point Judith, 2d.  
*Utah*.—Logan, 23d.  
*Wisconsin*.—Beloit and Manitowac, 25th. At Sussex, Waukesha county, a thunder-storm, accompanied by hail and high wind, occurred on the 26th, beginning at 12.20 a. m., and lasting twenty minutes.

## SNOW.

Snow fell in the several districts during the month as follows:

*New England*.—2d, 12th, 14th to 17th, 29th, 30th. On the summit of Mount Washington, New Hampshire, snow fell on 1st, 12th to 16th, 18th, 19th, 23d, 24th, 26th to 30th.  
*Middle Atlantic states*.—1st, 2d, 12th, 14th, 15th, 16th, 25th, 27th, 28th, 30th.  
*Ohio valley*.—1st, 2d, 12th to 16th.  
*Lower lakes*.—1st, 2d, 12th to 16th, 25th, 27th, 28th, 30th.  
*Upper lakes*.—1st, 2d, 6th, 11th to 16th, 21st to 30th.  
*Extreme northwest*.—9th, 10th, 11th, 13th, 14th, 18th to 30th.  
*Upper Mississippi valley*.—5th, 11th, 13th, 14th, 21st, 24th to 27th.  
*Missouri valley*.—5th, 9th, 13th, 19th to 23d, 25th.  
*Northern slope*.—2d, 4th, 8th to 13th, 18th to 30th.  
*Middle plateau*.—3d, 4th, 5th, 8th, 9th, 19th to 22d, 24th, 25th.  
*Northern plateau*.—6th, 19th, 20th, 21st, 24th, 25th, 26th.  
*North Pacific coast*.—6th, 8th, 21st, 22d, 24th, 25th, 26th.  
 On the summit of Pike's Peak, Colorado, snow fell on the 3d, 9th, 20th, 21st, 23d, 25th; and at Denver, Colorado, on the 13th and 25th.  
 A slight fall of snow occurred at Auburn, Alabama, at 9.30 a. m. of the 15th.

## LARGEST MONTHLY SNOWFALLS.

[Expressed in inches.]

The following are the largest monthly snowfalls reported from the various states and territories during the month:

*California*.—Cisco, 22; Emigrant Gap, 12; Summit, 12.  
*Dakota*.—Fort Assiniboine, 31.1; Fort Buford, 17.5; Fort Totten, 7.3.  
*Massachusetts*.—Rowe, 7.  
*Michigan*.—Northport, 15.55; Marquette, 15.2; Fort Brady, about 15; Alpena, 12.3; Traverse City, 11; Grand Rapids, 8.5; Grand Haven, about 6.  
*Minnesota*.—Duluth, about 11.  
*Montana*.—Fort Ellis, 8.8; Fort Shaw, 8.3; Helena, 6.4.  
*Nevada*.—Truckee, 25; Otaga, 17; Wells, 13; Toano, 8.5; Battle Mountain, 7; Halleck, 6.5.  
*New Brunswick*.—Fredericton, 6.3.  
*New Hampshire*.—Mount Washington, about 8.

*New York*.—Humphrey, 19.5; Kiantone, 9.25; North Volney, about 8; Palermo, 5.25; Johnstown, 5; Buffalo, about 5; Oswego, about 5.

*Nova Scotia*.—Halifax, 8.5.

*Ohio*.—Wauseon, 8.

*Pennsylvania*.—Grampian Hills, 9.

*Prince Edward Island*.—Charlottetown, 5.6.

*Utah*.—Promontery, 10.5; Ogden, 10; Salt Lake City, about 10; Nephi, 8.1; Blue Creek, 7.5; Logan, 7; Corinne, 6.

*Vermont*.—Stratford, 9; Lunenburg, 7.5; Newport, 7.25.

*Washington Territory*.—Spokane Falls, about 9.

*Wyoming*.—Fort Bridger, 7.6.

## DEPTH OF UNMELTED SNOW ON GROUND AT END OF MONTH.

[Expressed in inches.]

*Dakota*.—Fort Buford, 5; Bismarek, 1.  
*Massachusetts*.—Rowe, 3.  
*Michigan*.—Mackinaw City, 3; Marquette, 3; Traverse City, 2.5; Alpena, 2; Escanaba, 2.  
*Minnesota*.—Saint Vincent, 2; Duluth, 1.  
*Montana*.—Poplar River, 6; Fort Maginnis, 2.  
*New Hampshire*.—Mount Washington, 2.  
*Utah*.—Logan, 2.  
*Vermont*.—Lunenburg, 5; Newport, 4; Strafford, 3; Woodstock, 2.

## SNOW FROM A CLOUDLESS SKY.

Pittsburg, Pennsylvania.—Snow fell from a cloudless sky at 5 p. m. of the 15th.

## SLEET.

Northfield, Minnesota, 1st, 2d.  
 Mount Washington, New Hampshire, 1st, 12th to 16th, 18th, 19th, 23d, 24th, 26th to 30th.  
 Oswego, New York, 1st, 12th.  
 Block Island, Rhode Island, 2d.  
 Erie, Pennsylvania, 2d.  
 Baltimore, Maryland, 2d.  
 Cheyenne, Wyoming, 4th.  
 Salt Lake City, Utah, 9th.  
 Escanaba, Michigan, 10th.  
 Eastport, Maine, 12th, 30th.  
 Montgomery, Alabama, 15th.  
 Dayton, Washington Territory, 19th.  
 Cedar Rapids, Iowa, 21st.  
 Dubuque, Iowa, 21st.  
 Fort Stevens, Oregon, 24th, 25th.  
 Fort Canby, Washington Territory, 24th, 25th.  
 Duluth, Minnesota, 25th.  
 Moorhead, Minnesota, 29th.  
 Port Huron, Michigan, 30th.

Table of rainy and cloudy days, relative humidity, and dew-point for Nov., 1883.

Districts.	Rainy days.	Cloudy days.	Rel. humidity.	Dew-point.
			Percentages.	°
New England.....	From 9 to 19	From 4 to 11	From 69.4 to 78.8	From 31.2 to 39.6
Middle Atlantic states.....	" 4 " 17	" 3 " 13	" 66.7 " 75.9	" 32.7 " 42.2
South Atlantic states.....	" 4 " 11	" 2 " 8	" 62.6 " 78.8	" 38.2 " 51.0
Florida peninsula.....	" 5 " 9	" 1 " 6	" 77.1 " 79.6	" 57.8 " 68.1
East Gulf.....	" 9 " 12	" 5 " 8	" 67.2 " 69.9	" 45.2 " 51.7
West Gulf.....	" 8 " 18	" 7 " 10	" 62.0 " 79.6	" 40.0 " 59.2
Rio Grande valley.....	" 7 " 12	" Nine	" 71.9 " 81.3	" 57.5 " 62.4
Ohio valley.....	" 12 " 21	" 6 to 10	" 62.3 " 69.3	" 31.9 " 38.4
Tennessee.....	" 10 " 16	" 7 " 9	" 66.4 " 73.9	" 39.3 " 42.9
Lower lakes.....	" 13 " 22	" 10 " 19	" 62.8 " 81.0	" 12.3 " 20.4
Upper lakes.....	" 9 " 21	" 7 " 18	" 66.2 " 80.5	" 22.4 " 34.3
Extreme northwest.....	" 5 " 12	" 4 " 8	" 75.8 " 81.0	" 17.6 " 20.4
Upper Mississippi valley.....	" 4 " 14	" 4 " 9	" 60.2 " 70.6	" 21.5 " 39.3
Missouri valley.....	" 0 " 6	" 1 " 4	" 62.2 " 68.1	" 17.6 " 30.7
Northern slope.....	" 2 " 14	" 1 " 11	" 41.9 " 66.9	" 6.4 " 22.2
Middle slope.....	" 1 " 4	" 0 " 2	" 46.3 " 55.2	" 16.1 " 28.1
Southern slope.....	" Six	" Seven	" 63.7 " 67.5	" 6.4 " 24.4
Southern plateau.....	" 0 " 5	" 0 " 3	" 49.1 " 55.0	" 23.1 " 31.3
Northern plateau.....	" 4 " 18	" 7 " 16	" 69.1 " 78.7	" 32.3 " 34.1
North Pacific.....	" 16 " 25	" 15 " 20	" 82.2 " 90.8	" 40.1 " 44.6
Middle Pacific.....	" 2 " 3	" 2 " 6	" 69.8 " 80.3	" 39.8 " 47.2
South Pacific.....	" 0 " 2	" 1 " 2	" 59.5 " 64.8	" 41.9 " 45.1
Mt. Washington, N. H.....	Eighteen	Two	88.0	16.5
Pike's Peak, Col.....	Six	None	75.4	7.3

\* Relative humidity corrected for altitude.